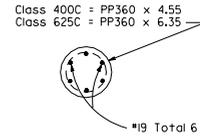




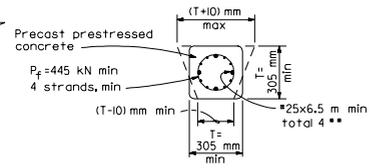
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO.	SHEET TOTAL NO.

REGISTERED CIVIL ENGINEER
 July 1, 1999
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

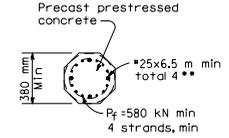
T.P. JOHNSON
 No. C17596
 Exp. 6-30-01
 CIVIL ENGINEER
 STATE OF CALIFORNIA



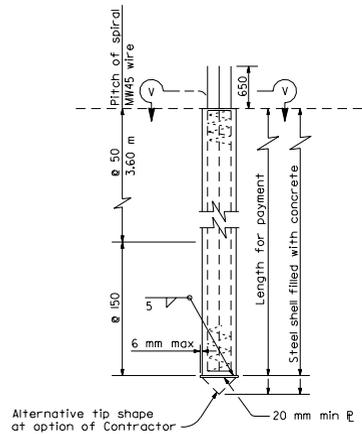
SECTION V-V
 PP = Steel pipe pile



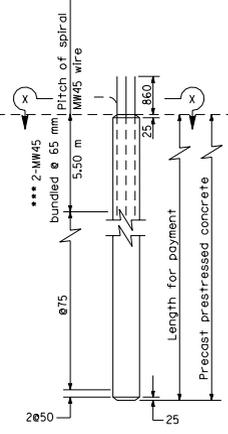
SECTION X-X
 ** To be in place when pile is cast



SECTION Y-Y

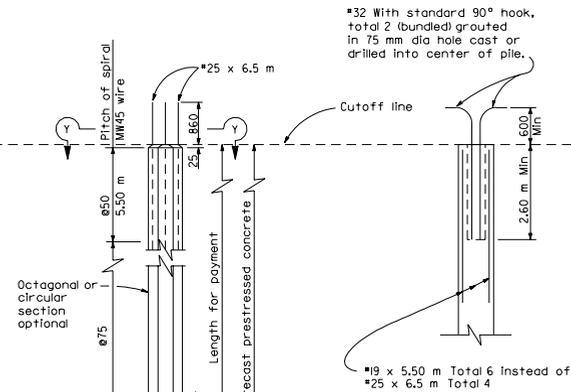


ALTERNATIVE "V"



ALTERNATIVE "X"

*** MW70 at 50 may be substituted



ALTERNATIVE PILE ANCHOR FOR PRESTRESSED PILES

NOTES

- Details are the same for both Class 400C and Class 625C piles unless noted otherwise.
- Pile reinforcement extending into a footing shall be hooked as required to provide clearance to top of footing. Piles shall be extended only in accordance with details shown elsewhere in these plans.
- Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 150 mm tail hooked around a longitudinal bar or strand.
- At the Contractor's option, alternative steel pipe with at least the diameter and wall thickness shown on these plans may be used. The diameter shall not exceed 460 mm.
- All concrete in piles shall contain not less than 450 kilograms of cement per cubic meter.
- A 50 mm clearance to spiral reinforcement shall be maintained if section used is larger than the minimum section shown.
- Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" piles is three (3) meters.
- For additional longitudinal reinforcement and prestressing for anchor piles and load test piles, see "LOAD TEST PILE DETAILS (2)", STANDARD PLAN B2-10.

DESIGN NOTES

PRECAST PRESTRESSED PILES

P_p = Prestressing Force If section used is larger than the minimum section shown, then " P_p " shall provide 5 MPa minimum.

CONCRETE STRENGTH: f'_c @ 28 days = 42 MPa (Alternative "X")
 35 MPa (Alternative "Y")
 f'_c @ transfer = 28 MPa

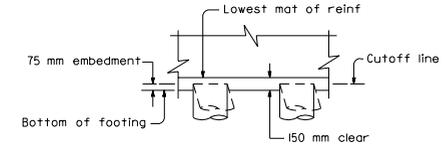
REINFORCED CONCRETE

f'_c = 28 MPa
 f_y = 420 MPa

DESIGN CAPACITY

Class 400
 Compression = 400 kilonewtons (Service state)
 = 800 kilonewtons (Nominal axial resistance)
 Tension = 400 kilonewtons (Nominal axial resistance)

Class 625
 Compression = 625 kilonewtons (Service state)
 = 1250 kilonewtons (Nominal axial resistance)
 Tension = 625 kilonewtons (Nominal axial resistance)



PILE EMBEDMENT

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PILE DETAILS
 CLASS 400C AND CLASS 625C**

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN